		ol Certificate Part – II		The state of the s
55.5	nnual nation 2012	MATI	HI J	YDERABAD BOARD
	Minutes			M. Marks: 15
100100	99	ns. Each questions carries ( part questions in your answ		-m
1000	2010년 전 100년 100년 100년 100년 100년 100년 100	n full against the proper nu and MCQs question paper m	NOT THE REPORT OF THE PARTY OF	COIII
0000 000 V PS 00		ion paper must be mentione	ed in bold letters in	
Multiple Choice Question (MCQs)				
	oose the correc	t answer for each fro	om the given o	options:
	$\{x \in \mathbb{N}, x \leq 50\}$	50) is written in set	builder form (b) {x   x € I	 E x ≤ 503
(c) {x	$x \mid x \in Q, x \le 50$		(d) {x   x € H	
(ii) If log (a) 6	$x_2 = 3 $ then $x = .$	(b) 8	(c) 10	(d) 5
(iii) (√x	$+ \sqrt{y}$ ) $(\sqrt{x} - \sqrt{y})$	=		(3.7)
(iv) The l	$(x + \sqrt{y})^2$ L.C.M of $x^3$ - $y^3$ an	nd x <sup>6</sup> -y <sup>6</sup> is	(c) $(\sqrt{x} - \sqrt{y})$	
(a) x <sup>3</sup>	$-y^3$	(b) $x^3 + y^3$ gles A, B, C are called.	(c) $x^6 + y^6$	(d) $x^6 - y^6$
(a) Ex	cterior angles	(b) Interior angles		ntary angles
(d) None of these (vi) If   A   = 0, then Matrix A is called				
(a) Singular Matrix (b) Non-Singular Matrix (c) Null Matrix (d) None of these				
		ed proportion, then (b) a <sup>2</sup> =bc		(d) None of these
(viii) The s	sum of 230 item is	s Zero, their mean is		(II 2)
(ix) The v		(b) -10	(c) Zero	(d) 10
(a) 2	value of sin 30° is	(b) 1/2	(c) -2	(d) $\frac{1}{\sqrt{2}}$
92 (0)000	0 is a ii	n a variable x.	71.1.2.2	72
100000000000000000000000000000000000000	uadratic equation near equation		(b) Non linear (d) Irrational	
(xi) (U-A)	)=	(b) A	(c) A'	(d) None of these
(xii) tan 6	$0^{\circ} = \dots \dots \dots \dots$	**		
E	iplicative Identity	(b) cot 60°	(c) cot 30°	(d) None of these
(a) 0		(b) 1	(c) 2	
100 (100 (100 (100 (100 (100 (100 (100		les a set of data into tw (b) Mode		
(xv) Through three non-collinear points circle can pass.  (a) Three (b) Two (c) One and only one (d) None of these				
(xvi) In a ı	right angle trians	gle the side opposite to	right angle is c	alled
(xvii) (2 <sup>-6</sup> ) <sup>2</sup>	erpendicular =		***	se (d) Altitude
(a) 2 (xviii) A cir		(b) 2 <sup>3</sup> s all sides of a triangle	(c) 2 <sup>-12</sup>	
			is calleu	A CAN AREA BY MANNEY MANNEY
(a) C (viv) (a+b)	ircum circle	(b) Inscribed circle		[1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
(xix) (a+b) (a) 4a	$ab^{2} + (a-b)^{2} = \dots$	(b) $a^2+b^2$	(c) Escribed (c) 2(a <sup>2</sup> +b <sup>2</sup> )	circle (d) None of these (d) 2ab
(xix) (a+b) (a) 4a (xx) If a:b	$ab^{2} + (a-b)^{2} =$ $ab^{2} = c:d$ , then a:c=b		(c) Escribed (c) $2(a^2+b^2)$ oportion is called	(d) 2ab
(xix) (a+b) (a) 4a (xx) If a:b (a) D	$ab^{2} + (a-b)^{2} =$ $ab^{2} = c:d$ , then a:c=b	(b) $a^2+b^2$ <b>c:d this property of pro</b> (b) Alternando	(c) Escribed (c) $2(a^2+b^2)$ oportion is called	(d) 2ab
(xix) (a+b) (a) 4a (xx) If a:k (a) D	) <sup>2</sup> + (a-b) <sup>2</sup> = ab b=c:d, then a:c=b ividendo OWED: 2:40 MINU	(b) a <sup>2</sup> +b <sup>2</sup> c:d this property of pro (b) Alternando  UTES  SECTION -	(c) Escribed (c) $2(a^2+b^2)$ oportion is called (c) Invertende	circle (d) None of these  (d) 2ab ed o (d) Componendo  MARKS: 60
(xix) (a+b) (a) 4a (xx) If a:b (a) D	ab b=c:d, then a:c=b ividendo OWED: 2:40 MINU	(b) a <sup>2</sup> +b <sup>2</sup> <b>c:d this property of pro</b> (b) Alternando  UTES	(c) Escribed (c) $2(a^2+b^2)$ oportion is called (c) Invertended.  - B  wing Question	circle (d) None of these  (d) 2ab ed o (d) Componendo  MARKS: 60
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(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3	o + (a-b) <sup>2</sup> =  ab b = c:d, then a:c=b ividendo  OWED: 2:40 MINU  Answer A All Quistic  If A = {1,2,3,4}  Rationalize the	(b) $a^2+b^2$ c:d this property of pro (b) Alternando  UTES  SECTION -  NY TEN of the Follow  ons Carry Equal Ma $a^2+b^2$ c, and $a^2+b^2$ denominator $a^2+b^2$ $a^2+b^2$ denominator $a^2+b^2$	(c) Escribed (c) 2(a²+b²) portion is called (c) Invertendent (c) Invertend	(d) 2ab ed o (d) Componendo MARKS: 60
(xix) (a+b) (a) 4a (xx) If a:k (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5	operior (a-b) <sup>2</sup> =  ab bec:d, then a:c=b ividendo  OWED: 2:40 MINU  Answer A  All Quistic  If A = {1,2,3,4}  Rationalize the  Find the value  If P(x) =2x <sup>4</sup> +	(b) $a^2+b^2$ c:d this property of pro- (b) Alternando  UTES  SECTION -  ny TEN of the Folloy  ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the electrominator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . $3x^3-x-5$ , then find P(-2)	(c) Escribed (c) 2(a²+b²) portion is called (c) Invertended  - B wing Ouestion rks.  en verify that A-	(d) 2ab ed o (d) Componendo MARKS: 60
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(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:9  Q-No:9	$(a-b)^2 = \dots$ $(a-c)^2 = \dots$ $(a-c$	(b) $a^2+b^2$ c: d this property of pro (b) Alternando  UTES  SECTION -  ny TEN of the Folloy ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the electronic denominator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . $3x^3-x-5$ , then find $P(-2)$ of 4ab, when a-b=8 and TWO of the following (ii) $a^2-b^2-2a+1$ $\frac{y+1}{y+1} = x = \frac{y-1}{y+1} = x$ from of following equal $S = v$ it $-\frac{1}{2}$ gt <sup>2</sup> $\frac{b}{c+a} = \frac{c}{a+b}$ and $a+b$ dvantages and disadvant of triangle.	(c) Escribed of (c) 2(a²+b²) portion is called (c) Invertended  B ving Ouestion rks.  en verify that A-  in a+b=-7.  (iii) 7y²-14y-  y²-1  y³+1  tions by comparations by comparations by comparations by comparations of Median	circle (d) None of these  (d) 2ab ed  (o) (d) Componendo  MARKS: 60  S. 36  B=A-(A \cap B)  21  crison method.
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(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL NOTE:  Q-No:2 Q-No:3 Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:9  Q-No:10 Q-No:11 Q-No:12 Q-No:13  Q-No:14 Q-No:15	over that:  The state of the provest the angle of the state of the sta	(b) $a^2+b^2$ ord this property of pro- (b) Alternando  UTES  SECTION -  ny TEN of the Follow ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the electronic denominator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . (a) $3x^3-x-5$ , then find $P(-2)$ of 4ab, when a-b=8 and TWO of the following (a) (ii) $a^2-b^2-2a+1$ (b) $\frac{y+1}{y+1} = x = \frac{y-1}{y+1} = x$ (c) and $\frac{y-1}{y+1} = x = \frac{y-1}{y+1} = x$ (c) $\frac{y}{2} = \frac{c}{a+b} = \frac{c}{a+b}$ and $\frac{a+b}{a+b} = \frac{c}{a+b}$ (d) vantages and disadvant of triangle. (a) angle ABC in which months are perpendicular is drawled.  SECTION -  SECTION -  SECTION -	(c) Escribed (c) $2(a^2+b^2)$ portion is called (c) Invertended  B ving Ouestion rks.  en verify that A-  in a+b=-7.  iii) $7y^2$ -14y- $y^2$ -1 $y^3$ +1  tions by companions by companions and from the centre of	circle (d) None of these  (d) 2ab  ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:9  Q-No:9  Q-No:10  Q-No:11 Q-No:12 Q-No:13  Q-No:14	$^{2}$ + $(a-b)^{2}$ = $^{3}$ b $^{2}$ = $(a-b)^{2}$ = $^{3}$ b $^{3}$ = $(a-b)^{2}$ = $^{3}$ b $^{3}$ = $(a-b)^{2}$ = $^{3}$ b $^{3}$ = $(a-b)^{2}$ = $^{3}$ b $^{4}$ = $(a-b)^{2}$ = $^{4}$ Answer A $^{4}$ All Ouistic $^{4}$ All Ouistic $^{4}$ All Ouistic $^{4}$ Find the value $^{4}$ Find	(b) $a^2+b^2$ ord this property of pro- (b) Alternando  UTES  SECTION -  ny TEN of the Follow  ons Carry Equal Ma  and $B = \{2,4,6,8\}$ , the consecution of the following of y, if $\log_{\sqrt{5}} 25 = y$ .  3x <sup>3</sup> -x-5, then find P(-2) of 4ab, when a-b=8 and  TWO of the following of the	(c) Escribed (c) $2(a^2+b^2)$ portion is called (c) Invertended  B ving Ouestion rks.  en verify that A-  in a+b=-7.  iii) $7y^2$ -14y- $y^2$ -1 $y^3$ +1  tions by companions by companions and from the centre of	circle (d) None of these  (d) 2ab  ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:9  Q-No:10  Q-No:11 Q-No:12 Q-No:13  Q-No:14  Q-No:15  NOTE:	obec:d, then a:c=b ividendo  OWED: 2:40 MINU  Answer A  All Ouistic  If A = {1,2,3,4}  Rationalize the  Find the value If P(x) = 2x <sup>4</sup> +  Find the value  Factorize any (i) a <sup>2</sup> b <sup>2</sup> - 6ab+  Simplify: y <sup>2</sup> +  Simplify: y <sup>2</sup> +  Vf=v i+gt,  If a b+c construct a tri  Prove that:  Prove that, if a bisects the cho	(b) $a^2+b^2$ ord this property of profession (b) Alternando  UTES  SECTION -  ny TEN of the Follow  ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the end of the following of y, if $\log_{\sqrt{5}} 25 = y$ .  (c) $3x^3-x-5$ , then find $P(-2)$ of 4ab, when $a-b=8$ and $P(-2)$ of 4ab, when $a-b=8$ and $P(-2)$ of 4ab, when $P(-2)$ o	(c) Escribed (c) $2(a^2+b^2)$ portion is called (c) Invertended.  B ving Ouestion rks.  en verify that A-  in it is a series of the series of	circle (d) None of these  (d) 2ab  ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:9  Q-No:10  Q-No:11 Q-No:12 Q-No:13  Q-No:14  Q-No:15  NOTE:  Q-No:16	or the prove that, if a bisects the cholor of the L.C.M  Answer Arable the allocation of the land the value of the prove that, if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the prove that if a bisects the cholor of the provent a	(b) $a^2+b^2$ c:d this property of profess  SECTION -  NY TEN of the Follow  Ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the ce denominator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . $3x^3-x-5$ , then find $P(-2)$ of 4ab, when $a-b=8$ and $TWO$ of the following $P(-2)$ of	(c) Escribed of (c) $2(a^2+b^2)$ opertion is called (c) Invertended.  B wing Ouestion rks.  en verify that A-e  1. (iii) $7y^2-14y-y^2-1$ y <sup>3</sup> + 1  tions by comparate the properties of Median CA=6 cm, mBC  Collowing Ouesticks.  Contraction of the center	circle (d) None of these  (d) 2ab ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:3  Q-No:5  Q-No:6  Q-No:7  Q-No:8  Q-No:9  Q-No:10  Q-No:11  Q-No:12  Q-No:13  Q-No:15  NOTE:  Q-No:16  Q-No:17	ab    Construct a tri   Prove that;   If a left a l	(b) $a^2+b^2$ c: d this property of profession (b) Alternando  UTES  SECTION -  ny TEN of the Followons Carry Equal Ma  a, and $B = \{2,4,6,8\}$ , the ended of the following equal $A = A = A = A = A = A = A = A = A = A $	(c) Escribed of $(c)$ $2(a^2+b^2)$ portion is called (c) Invertended.  By ing Ouestion rks.  en verify that A-  in the comparison of the comparison of the centre of the comparison of the centre of the comparison of the centre	circle (d) None of these  (d) 2ab  ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:3  Q-No:5  Q-No:6  Q-No:7  Q-No:8  Q-No:9  Q-No:10  Q-No:11  Q-No:12  Q-No:13  Q-No:15  NOTE:  Q-No:16  Q-No:17	ab  ab  b=c:d, then a:c=b ividendo  OWED: 2:40 MINU  Answer A  All Ouistie  If A = {1,2,3,4}  Rationalize the  Find the value  If P(x) = 2x <sup>4</sup> +  Find the value  Factorize any  (i) a <sup>2</sup> b <sup>2</sup> - 6ab+  Simplify: y <sup>2</sup> +  y-  Eliminate v <sub>f</sub> for v <sub>f</sub> =v i+gt,  If a b+c = c  Describe the and Define kinds of Construct a tri  Prove that, if a bisects the cholon  Answer Ar  All Ouistie  Find the L.C.M  If A = [ 2 4]  Prove that the some construct a tri  Prove that if a bisects the cholon  Answer Ar  All Ouistie  Find the L.C.M	(b) $a^2+b^2$ cid this property of pro- (b) Alternando  UTES  SECTION -  NY TEN of the Follow  ONS Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the cons carry Equal Ma  (d) and $B = \{2,4,6,8\}$ , the cons carry Equal Ma  (e) denominator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . (a) $3x^3-x-5$ , then find $P(-2)$ of 4ab, when a-b=8 and TWO of the following (a) (ii) $a^2-b^2-2a+1$ (b) $y+1$ $y$	(c) Escribed of $(c) 2(a^2+b^2)$ oportion is called (c) Invertended.  B ving Ouestion rks.  en verify that A-enverify that A-	circle (d) None of these  (d) 2ab  ed
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(xix) (a+b) (a) 4a (xx) If a:h (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:8  Q-No:9  Q-No:10  Q-No:11 Q-No:12 Q-No:13  Q-No:15  NOTE:  Q-No:16 Q-No:17  Q-No:16 Q-No:17  Q-No:19 (a	ab b=c:d, then a:c=b ividendo  OWED: 2:40 MINU  Answer A All Ouistie  If A = {1,2,3,4}  Rationalize the Find the value If P(x) = 2x <sup>4</sup> + Find the value Factorize any (i) a <sup>2</sup> b <sup>2</sup> - 6ab+  Simplify: y <sup>2</sup> + y  Eliminate v <sub>f</sub> f v <sub>f</sub> =v i+gt,  If a b+c - c  Describe the a Define kinds of Construct a tri  Prove that, if a bisects the cho  Answer Ar All Ouistie  Find the L.C.M  If A = [2, 3, 4]  Answer Ar All Ouistie  Find the L.C.M  Answer Ar All Ouistie  Find the percentage is a second or	(b) $a^2+b^2$ (c) d this property of pro- (b) Alternando  UTES  SECTION -  ny TEN of the Follow  ons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the constant of $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ .  3x <sup>3</sup> -x-5, then find P(-2) of 4ab, when a-b=8 and  TWO of the following  (ii) $a^2-b^2-2a+1$ (iv) $\frac{1}{y+1} = x = \frac{y-1}{y+1} = x$ From of following equal  S=vit - $\frac{1}{2}$ gt <sup>2</sup> (c) $\frac{1}{2}$ and	(c) $2(a^2+b^2)$ portion is called (c) Invertended.  B wing Ouestion rks.  en verify that A-  in the companion of the companion of the center	circle (d) None of these  (d) 2ab  ed
(xix) (a+b) (a) 4a (xx) If a:b (a) D  TIME ALL  NOTE:  Q-No:2  Q-No:3  Q-No:4 Q-No:5 Q-No:6 Q-No:7  Q-No:8  Q-No:9  Q-No:10  Q-No:11 Q-No:12 Q-No:13  Q-No:15  NOTE:  Q-No:16  Q-No:16  Q-No:17  Q-No:18 (a) (b)	Describe the a Define kinds of Construct a tri  Prove that, if a bisects the choose of the solution of the so	(b) $a^2+b^2$ cid this property of pro- (b) Alternando  UTES  SECTION—  INV TEN of the Followons Carry Equal Ma  (c) and $B = \{2,4,6,8\}$ , the elementator $\frac{1}{4+3\sqrt{2}}$ of y, if $\log_{\sqrt{5}} 25 = y$ . (c) $3x^3-x-5$ , then find $P(-2)$ of 4ab, when $a-b=8$ and $P(-2)$ of 4ab, when $a-b=8$ and $P(-2)$ of 4ab, when $P(-2)$ and $P(-2)$ of 4ab, when $P(-2)$ and $P(-2)$ of 4ab, when $P(-2)$ and $P(-2)$	(c) Escribed of $(c)$	circle (d) None of these  (d) 2ab ed